

109189-1692E660

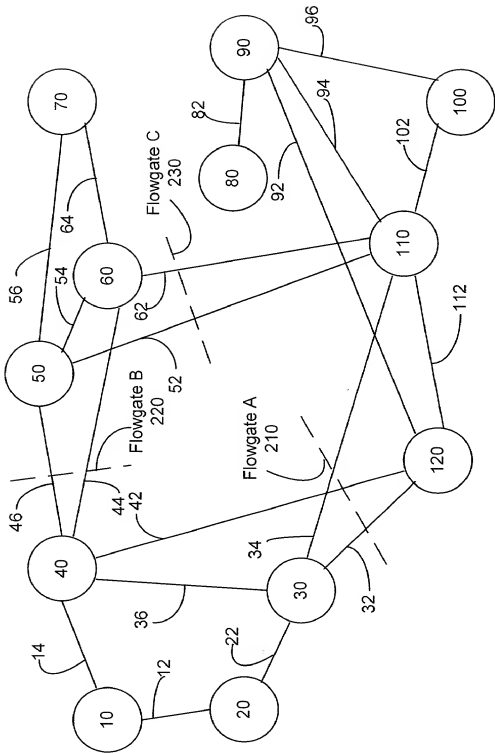


Fig. 1A Prior Art

Bus	Flowgate		
	A	B	C
1	0.70	0.30	0.30
2	0.80	0.20	0.20
3	0.90	0.10	0.10
4	0.60	0.40	0.40
5	0.60	-0.60	0.40
6	0.50	-0.50	0.50
7	0.55	-0.55	0.45
8	0.20	-0.20	-0.20
9	0.05	-0.05	-0.05
10	-0.01	0.01	0.01
11	0.00	0.00	0.00
12	-0.05	0.05	0.05

Fig. 1B
Prior Art

00932694-081604
109180-16226602

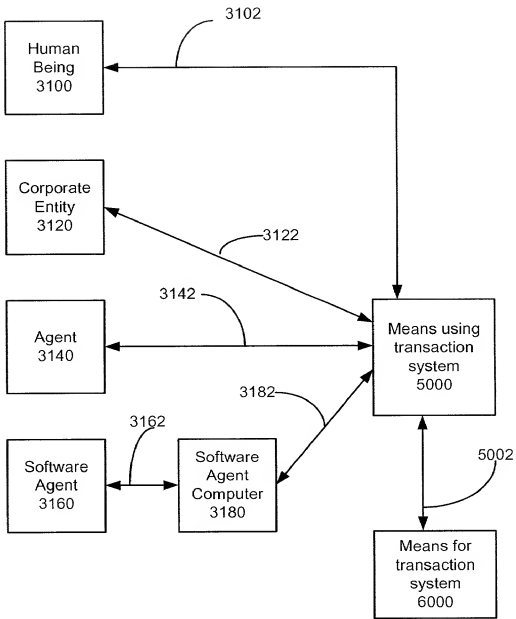


Fig. 2A

0926294.081604

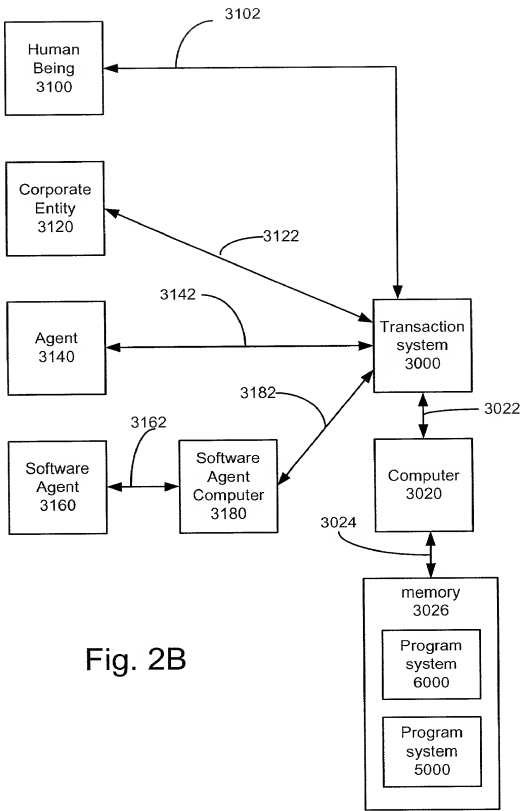


Fig. 2B

709180*4692E660

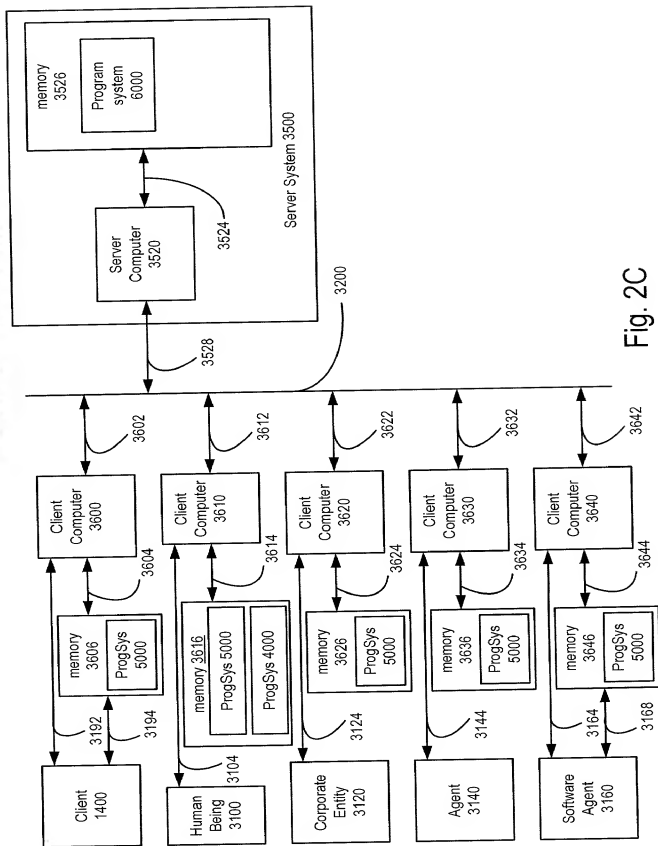


Fig. 2C

FIG. 2D

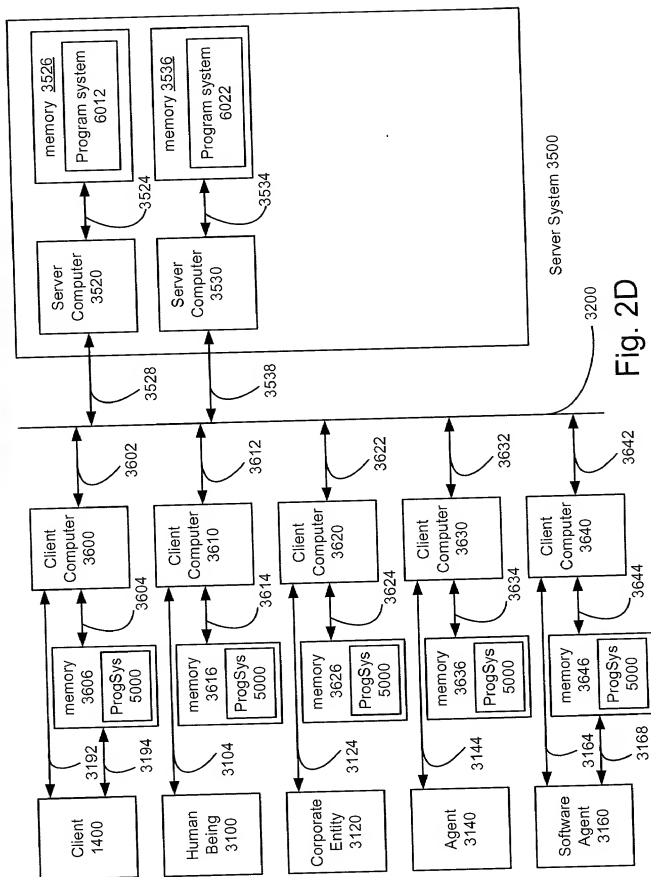


Fig. 2D

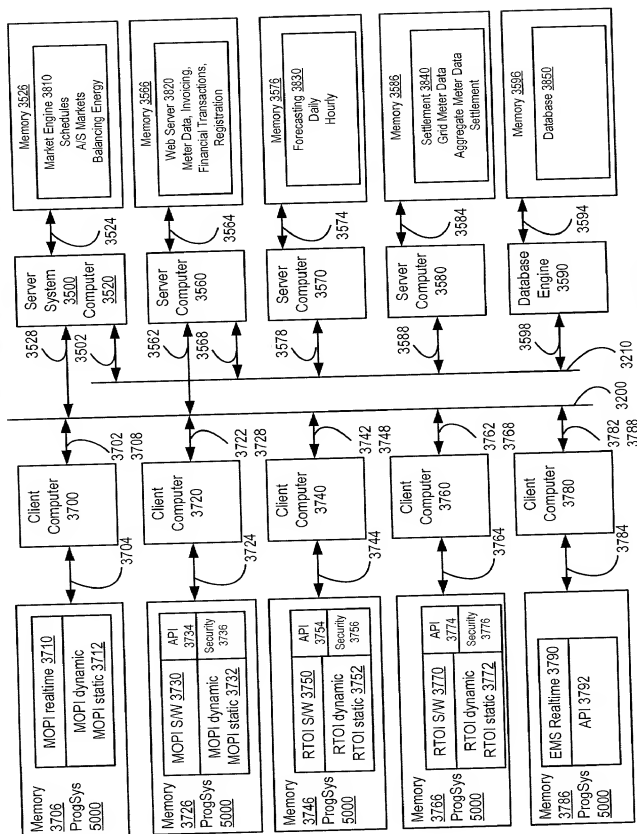


Fig. 2E

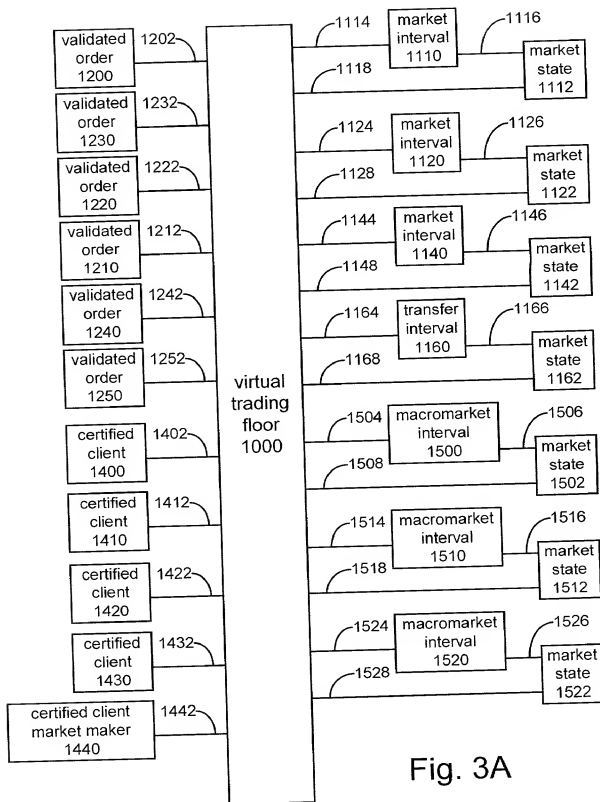


Fig. 3A

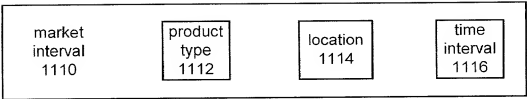


Fig. 3B

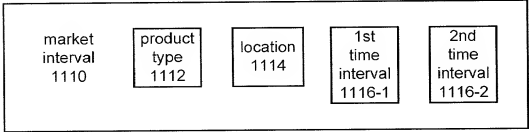


Fig. 3C

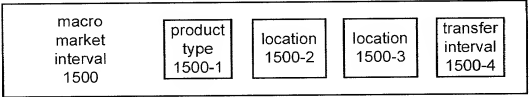


Fig. 3D

00332641-031601
101630-1692366

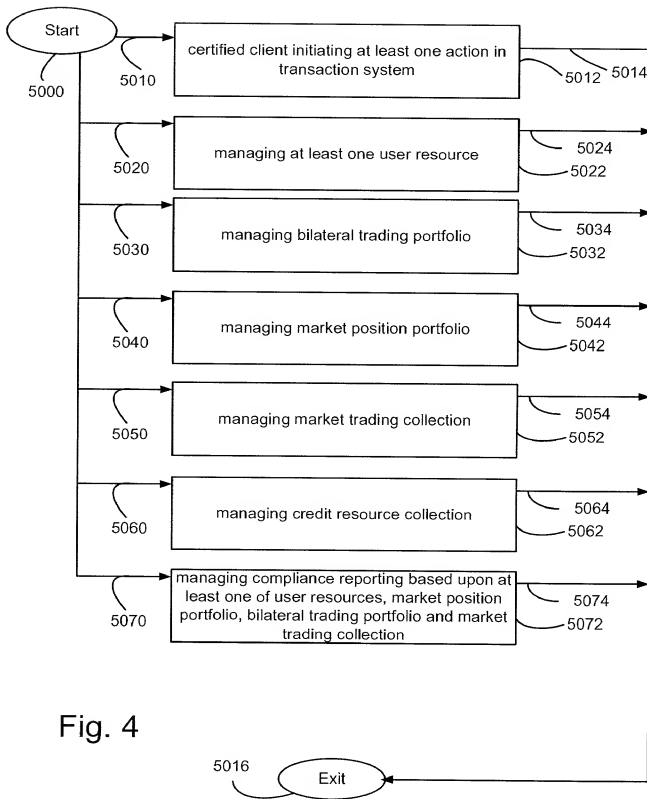
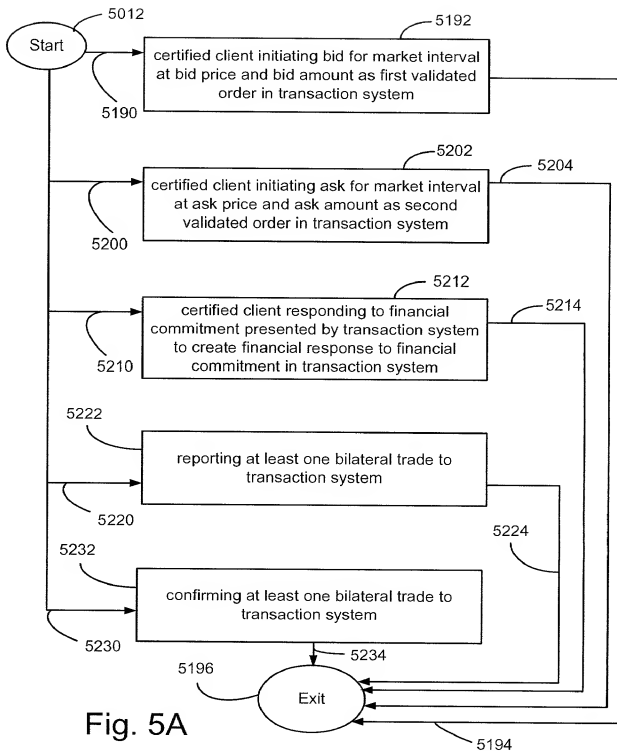
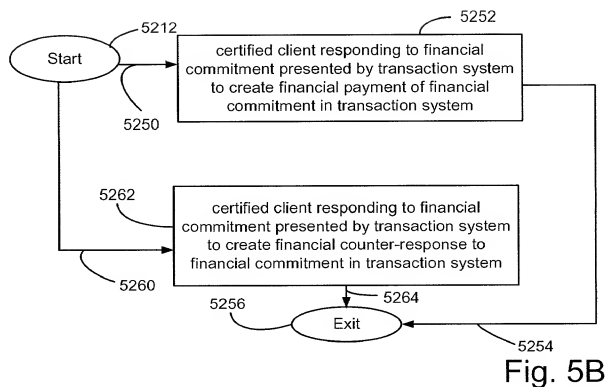


Fig. 4





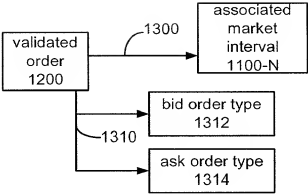


Fig. 6A

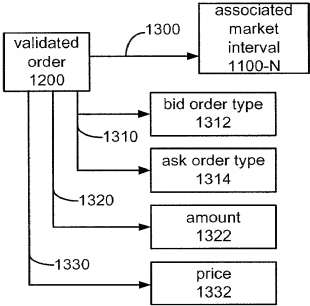
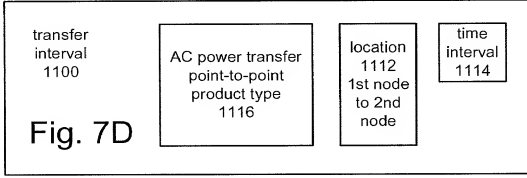
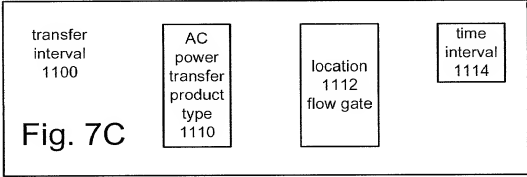
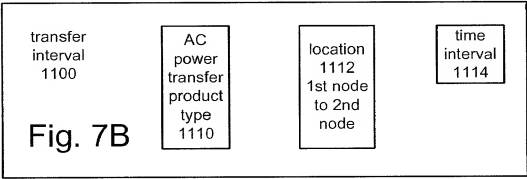
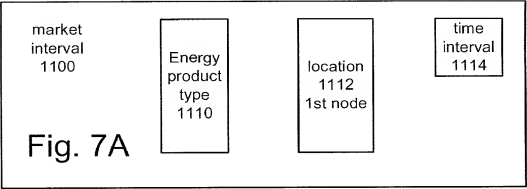


Fig. 6B



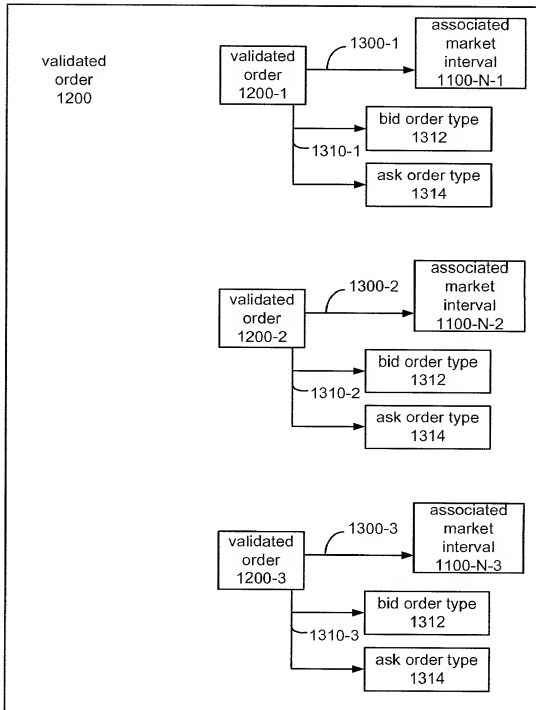


Fig. 8

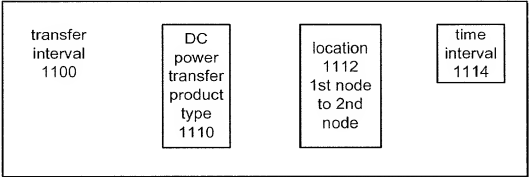


Fig. 9A

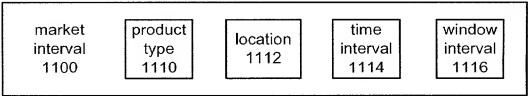


Fig. 9B

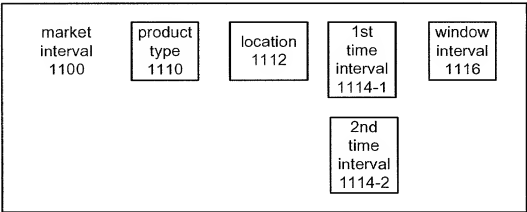


Fig. 9C

7000

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation 7006

November 1998

Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

11/10/98 11/11/98

Unit COCCOPP 7 Unit 1

Sell APX Zone Illinois

Commodity Hourly Energy

Display Options Total Only

MW's of Market Depth Highest Bid & Lowest Ask

☐ Min & Max Order Allowed

☐ Local Time (GMT-05:00) Eastern Time

☐ Generation Curve

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☐ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

Transfer In	Transfer Out	Import	Export	Trans- mission	Initiate Bilateral	Confirm Bilateral	Portfolio Manager	Orders	Graphs	Market Depth	
Market	Market	Contracted	Pending	Total	Highest	Highest	Lowest	Lowest	New	Limit	Limit
Time	Price	Position	Position	Position	Bid	Bid	Ask	Ask	Order	Price	Limit
Hour	(\$/MWh)	(Net MW)	(Net MW)	(Net MW)	Quantity	Price	Quantity	Price	(Net	(\$/	Range
Ending					(Net/MWh)(\$/MWh)	(Net/MWh)	(Net/MWh)	(Net/MWh)	MW)		
(ST)	7008	7010	7012	7014	7016	7018	7020	7022	7024		
1	14.54	0.00	0.00	0.00	36.59	11.20	35.99	12.43	25.00	20.00	Or More
2	12.17	0.00	0.00	0.00						20.00	Or More
3	12.96	12.00	13.00	25.00	26.98	11.71	38.84	14.21	25.00	20.00	Or More
4	14.45	12.00	13.00	25.00	32.41	12.99	40.76	15.40	25.00	20.00	Or More
5	18.17	12.00	13.00	25.00	39.55	17.61	29.77	18.76	25.00	20.00	Or More
6	19.91	12.00	13.00	25.00	45.61	18.02	25.56	20.54	25.00	20.00	Or More
7	22.31	25.00	0.00	25.00	40.33	20.89	34.16	23.17	25.00	20.00	Or More
8	22.42	25.00	0.00	25.00	50.94	22.39	43.08	24.12	25.00	20.00	Or More
9	23.47	25.00	0.00	25.00	59.49	22.40	40.09	25.28	25.00	20.00	Or More
10	24.05	25.00	0.00	25.00	61.26	24.05	46.29	25.28	25.00	20.00	Or More
11	24.17	25.00	0.00	25.00	26.94	24.17	50.06	24.71	25.00	20.00	Or More
12	23.73	25.00	0.00	25.00	26.85	23.73	45.69	26.09	25.00	20.00	Or More
13	23.30	25.00	0.00	25.00	35.01	23.19	46.22	25.39	25.00	20.00	Or More
14	21.26	25.00	0.00	25.00	51.60	20.62	42.48	25.39	25.00	20.00	Or More
15	22.37	25.00	0.00	25.00	56.34	21.99	44.09	24.04	25.00	20.00	Or More
16	22.53	25.00	0.00	25.00	53.21	22.05	40.71	24.19	25.00	20.00	Or More
17	22.75	25.00	0.00	25.00	28.80	21.40	42.38	23.75	25.00	20.00	Or More
18	23.80	25.00	0.00	25.00	48.05	23.58	40.24	25.05	25.00	20.00	Or More
19	24.75	25.00	0.00	25.00	38.89	24.05	34.85	26.81	25.00	20.00	Or More
20	24.98	25.00	0.00	25.00	38.48	24.93	37.47	26.37	25.00	20.00	Or More
21	24.07	25.00	0.00	25.00	31.43	23.64	31.10	25.47	25.00	20.00	Or More
22	21.12	25.00	0.00	25.00	40.56	21.07	43.59	23.98	25.00	20.00	Or More
23	19.83	12.00	0.00	25.00	43.24	17.75	31.24	21.01	25.00	20.00	Or More
24	17.06	12.00	0.00	25.00	41.08	15.27	33.41	19.29	25.00	20.00	Or More
Submit	Withdraw	Summary							Save	Refresh	

Fig. 10

109180*46926660

APX Market Window (T/M) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation 7130 GMM Unit 7102 COCORP 7 Unit 1

Load Sell APX Zone Illinois Commodity Daily On Peak Energy (hr7 to 22)

Transfer In 7104

Transfer Out

Display Options

Market Depth Highest Bid And Lowest Ask

Min & Max Order Allowed

Order Options

At Market Limit

Use Withdraw Date & Time

Display order summary when submitting orders

Display warning for orders outside native zone

Order in round lot multiple of 25 MW

Market Time	Day of Week	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (Net MW)	Total Position (Net MW)	Highest Bid (\$/MWh)	Quantity (Net MW)	Price (\$/MWh)	Lowest Ask (\$/MWh)	Quantity (Net MW)	Lowest Price (\$/MWh)	Limit Price (\$/MWh)	Limit Range (\$/MWh)
11/07/1998	Saturday	23.46	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/08/1998	Sunday	21.07	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/09/1998	Monday	22.58	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/10/1998	Tuesday	17.58	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/11/1998	Wednesday	17.94	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/12/1998	Thursday	16.72	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/13/1998	Friday	22.27	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/14/1998	Saturday	23.70	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/15/1998	Sunday	15.52	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/16/1998	Monday	16.15	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/17/1998	Tuesday	20.51	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/18/1998	Wednesday	18.60	0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/19/1998	Thursday		0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/20/1998	Friday		0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/21/1998	Saturday		0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/22/1998	Sunday		0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More
11/23/1998	Monday		0.00	0.00	0.00	7116	0.00	7118	7120	7122	7124	7126	20.61 Or More

Fig. 11

Market Depth

Submit Withdraw Summary

Save Refresh

7200

APX Market Window (TM) (Flowgate Trading)

File Edit View Order Message Tools Window Help

7230

May 1999						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

5/10/99 5/10/99

Flowgate: COCOPP_7_Unit 1 7202

Commodity: Hourly Flowgate 7204

Display Options

Market Depth: None

☐ Min & Max Order Allowed

☐ Local Time (GMT-00:00) GMT Time

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☒ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

Time	Price	Position	Pending	Total	New	Limit	Limit	N0CA->SoCA	N0CA->SoCA	N0CA->SoCA
Hour	(\$/MWh)	(Net MW)	(Net MW)	(Net MW)	Order	Price	Range	Contracted	Pending	Total
Ending		7210	7212	7214				Flow	Flow	Flow
(DT)	7208							(Net MW)	(Net MW)	(Net MW)
1	0.00	0.00	0.00	0.00				0.00	0.00	0.00
2	0.00	0.00	0.00	0.00				0.00	0.00	0.00
3	0.00	0.00	0.00	0.00				0.00	0.00	0.00
4	0.00	0.00	0.00	0.00				0.00	0.00	0.00
5	0.00	0.00	0.00	0.00				0.00	0.00	0.00
6	0.00	0.00	0.00	0.00				0.00	0.00	0.00
7	0.00	0.00	0.00	0.00				0.00	0.00	0.00
8	0.00	0.00	0.00	0.00				0.00	0.00	0.00
9	0.00	0.00	0.00	0.00				0.00	0.00	0.00
10	0.00	0.00	0.00	0.00				0.00	0.00	0.00
11	0.00	0.00	0.00	0.00				0.00	0.00	0.00
12	0.00	0.00	0.00	0.00				0.00	0.00	0.00
13	0.00	0.00	0.00	0.00				0.00	0.00	0.00
14	0.00	0.00	0.00	0.00				0.00	0.00	0.00
15	0.00	0.00	0.00	0.00				0.00	0.00	0.00
16	0.00	0.00	0.00	0.00				0.00	0.00	0.00
17	0.00	0.00	0.00	0.00				0.00	0.00	0.00
18	0.00	0.00	0.00	0.00				0.00	0.00	0.00
19	0.00	0.00	0.00	0.00				0.00	0.00	0.00
20	0.00	0.00	0.00	0.00				0.00	0.00	0.00
21	0.00	0.00	0.00	0.00				0.00	0.00	0.00
22	0.00	0.00	0.00	0.00				0.00	0.00	0.00
23	0.00	0.00	0.00	0.00				0.00	0.00	0.00
24	0.00	0.00	0.00	0.00				0.00	0.00	0.00

7206

Submit
Withdraw
Summary

Save
Refresh

Fig. 12

105180*40922660

File Edit View Go Bookmarks Tools Help											
MY WINDOW ORGANIZER TRADING DELIVERY ACCOUNTING NEWS ABOUT US											
Wednesday August 16, 2000 21:10:08 Market Window											
TRADINGENERGY Market ▾ 7302 7304											
<div> <div> Hyatt Generation ▾ Market: (more...) ▾ Montida/UWyo Hub ▾ Hourly ▾ 0.1 MW ▾ All-in Prices ▾ </div> </div>											
Interval	Market	Best Vol	Bid	Price	Ask	Best Vol	Volume	Trade Price	Prc Cng	Transmission Price	On
Aug 22, 2000 00	Montida/UWyo Hub	20.00	14.00	14.25	50.00	80.00	13.50	-0.50	7.26	-6.71	
	New Mexico Hub	50.00	16.00	16.25	50.00				4.51	-2.38	
	Northwest Hub	50.00	15.00	15.25	50.00	50.00	15.00	0.00	7.81	-7.65	
	Colorado Hub	50.00	16.00	16.25	50.00				6.40	-5.48	
	No California Hub	50.00	20.00	20.25	50.00				-0.20	0.26	
Aug 22, 2001 00	Arizona Hub	50.00	18.00	18.25	50.00				1.97	0.75	
	So California Hub	50.00	24.00	24.25	50.00				-2.95	3.26	
	Montida/UWyo Hub	20.00	14.00	14.25	50.00	80.00	13.50	-0.50	7.26	-6.71	
	New Mexico Hub	50.00	16.00	16.25	50.00				4.51	-2.3	
	Northwest Hub	50.00	15.00	15.25	50.00				7.81	-7.65	
Aug 22, 2002 00	Colorado Hub	50.00	16.00	16.25	50.00				6.40	-5.48	
	No California Hub	50.00	20.00	20.25	50.00				-0.20	0.26	
	Arizona Hub	50.00	18.00	18.25	50.00				1.97	0.75	
	So California Hub	50.00	24.00	24.25	50.00				-2.95	3.26	
	Montida/UWyo Hub	20.00	14.00	14.25	50.00	80.00	13.50	-0.50	7.26	-6.71	
Aug 22, 2002 00	New Mexico Hub	50.00	16.00	16.25	50.00				4.51	-2.38	
	Northwest Hub	50.00	15.00	15.25	50.00				7.81	-7	
	Colorado Hub	50.00	16.00	16.25	50.00				6.40	-5.48	
	No California Hub	50.00	20.00	20.25	50.00				-0.20	0.26	

RELATED LINKS
California ISO
California PUC
Oversight Board
CEC
Green-e
NERC

Fig. 13

Market Depth		Interval Depth		Recent Transactions		Transportation Requirements		Graphs		Price History	
Bid	Credit	Lot	Volume	Price	Volume	Lot	Credit	Ask			
APX		0.1 MW	20.0	14.00	50.0	0.1 MW	APX				
APX		0.1 MW	50.0	13.50	50.0	0.1 MW	APX				
Review + Submit				Withdraw		Options		Change Inc. - 2000			

7400

109180-1692E660

Session Edit Events Help

SET-UP TRADING SETTLEMENTS MY APX 11:28:34 PDT Tue Apr 24, 2001

TRADING / ENERGY Trade Manager

Market Window

APX 2006-figs 10.pdf 5th day, 12 August, 2001 04:05:35 PM

Trade Manager

Energy

Tickets

Spinning

Non-Spinning

Replacement

A/S CFO

REPORTS

ORDER SUMMARY

Interval

Apr 24, 2001 12

Apr 24, 2001 14

Apr 24, 2001 15

Apr 24, 2001 16

Apr 24, 2001 17

Apr 24, 2001 18

Apr 24, 2001 19

Apr 24, 2001 20

Apr 24, 2001 21

Apr 24, 2001 22

Apr 24, 2001 23

Apr 24, 2001 24

Apr 24, 2001 01

Apr 24, 2001 02

Apr 24, 2001 03

Apr 24, 2001 04

Apr 24, 2001 05

Apr 24, 2001 06

Apr 24, 2001 07

Apr 24, 2001 08

Apr 24, 2001 09

Apr 24, 2001 10

Apr 24, 2001 11

Apr 24, 2001 12

Apr 24, 2001 13

Apr 24, 2001 14

Apr 24, 2001 15

Apr 24, 2001 16

Interval Beginning Apr 24, 2001 17 Northern California Energy, Hourly, Trading Closes at 16:00, Time to Close 4:31:26

Submit

MS Energy

Withdraw

Withdraw All

Resubmit Last

Screen Options

Global Preferences

Messages

Help

Credit

APX

Lot Size

1 MW

Overview

Trading Screen

Sacramento Municipal Utility District

Gross Buys

Gross Sells

Outbox

Inbox

Dynegy Marketing & Trade (SC-APX)

Gross Buys

Gross Sells

ABC Refinery Cogen

Units

Sink Filled

Source Filled

Great Basin

Units

Source Filled

7500

Fig. 15

109180*46925660

Session Edit Events Help

SETUP **TRADING** SETTLEMENTS MY APX **TRADING / ENERGY** Trade Manager 11:28:34 PDT Tue Apr 24, 2001

Market Window

Trading Screen Detailed

Hourly Custom View

Quick View Northern California Dynergy Marketing & Trade (SC=APX)

Interval	Imbalance	Long	Short	Bid Qty	Bid Price	Enter	Enter	Enter	Offer Qty	Offer Price	Inbox	Inbox	Outbox	Outbox	Gross	Gross
											Quantity	Price	Quantity	Price	Buys	Sells
Apr 24, 2001 12																
Apr 24, 2001 14																
Apr 24, 2001 15																
Apr 24, 2001 16																
Apr 24, 2001 17	0.00															
Apr 24, 2001 18	0.00															
Apr 24, 2001 19	100.00															
Apr 24, 2001 20	100.00															
Apr 24, 2001 21	100.00															
Apr 24, 2001 22	100.00															
Apr 24, 2001 23	100.00															
Apr 24, 2001 24	100.00															
Apr 24, 2001 01	100.00															
Apr 24, 2001 02	100.00															
Apr 24, 2001 03	100.00															
Apr 24, 2001 04	100.00															
Apr 24, 2001 05	100.00															
Apr 24, 2001 06	10.00															
Apr 24, 2001 07	100.00															
Apr 24, 2001 08	100.00															
Apr 24, 2001 09	100.00															
Apr 24, 2001 10	100.00															
Apr 24, 2001 11																
Apr 24, 2001 12																
Apr 24, 2001 13																
Apr 24, 2001 14																
Apr 24, 2001 15																
Apr 24, 2001 16																

Interval Beginning Apr 24, 2001 17 Northern California Energy Hourly Trading Closes at 16:00 Time to Close 4:31:26

Submit AS Energy Withdraw All Withdraw Resubmit Last Messages Help Credit APX Lot Size 1 MW

Fig. 16

APX0006 figs 10.pdf Sunday, 12 August, 2001 04:05:35 PM

Fig. 17

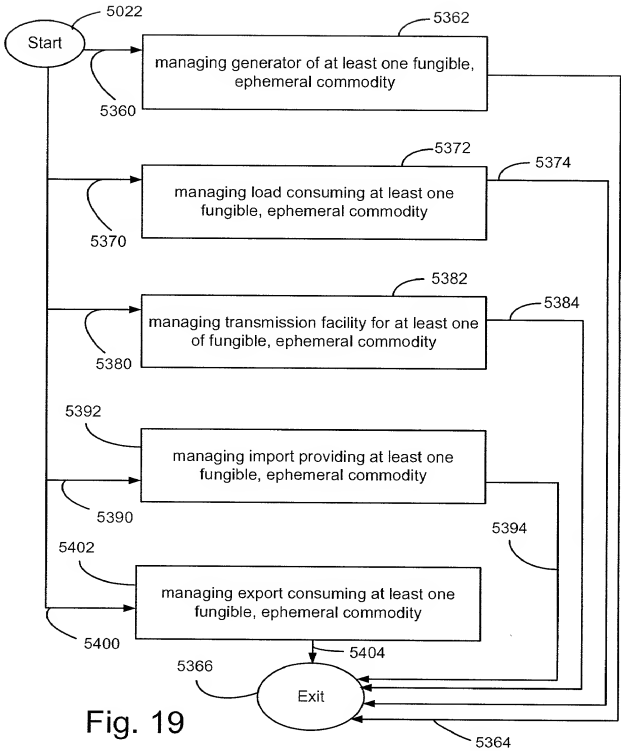
109180*4692E660

Session Edit Events Help	
<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4	ORGANIZER TRADING ACCOUNTING Mon Jul 23, 2001 16:59:51 APX HOME APX AGREEMENTS BILLING CONTRACTS LOG OFF CHANGE PASSWORD
Company: ACN1 Login Contact Name: APX157	

APX Monthly Invoice For December 2001 Invoice #: 7800	
Participant: Sample Generator Name Sample Generator Address Sample Generator Account Payment Due Date: January 15, 2001 10:00AM Click on a link to see details for that day. 7804	

Date Issued	Description	Download	APX Fees	Control Area Fees	External Energy	Apx Energy
1201/2001	STATEMENT ()	0	1,250.00	-3,253.00	-301,825.23	-36,543.50
1202/2001	STATEMENT ()	0	1,275.95	-6,254.33	-400,323.82	-38,332.25
1203/2001	STATEMENT ()	0	1,254.25	-1,243.34	-1387,655.05	-23,467.82
1204/2001	STATEMENT ()	0	1,185.13	-3,897.12	-225,438.24	-29,877.03
1205/2001	STATEMENT ()	0	1,233.00	-29,774.05	-203,546.33	-33,854.50
1206/2001	STATEMENT ()	0	987.65	-4,132.55	-308,488.89	-11,453.88
1207/2001	STATEMENT ()	0	1,130.91	-1,565.76	-279,116.32	-9,876.30
1208/2001	STATEMENT ()	0	999.04	-11,664.87	-233,129.04	-22,675.75
1209/2001	STATEMENT ()	0	1,089.43	-3,678.55	-408,011.49	-15,678.91
1210/2001	STATEMENT ()	0	1,267.92	-3589.10	-222,555.09	-18,429.03
1211/2001	STATEMENT ()	0	893.77	-8,945.23	-192,967.03	-13,742.45
1212/2001	STATEMENT ()	0	1,185.05	-19,675.76	-365,981.62	5,899.44
1213/2001	STATEMENT ()	0	1,118.74	-463.18	-146,706.59	-3,900.00
1214/2001	STATEMENT ()	0	1,056.41	-1,943.65	-288,720.49	-11,450.20
1215/2001	STATEMENT ()	0	874.32	-1,788.45	-203,456.27	-16,924.55
APX Fee Total:						\$16,801.61

Fig. 18



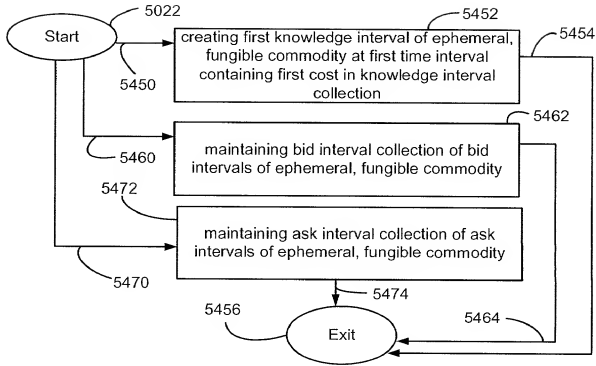


Fig. 20A

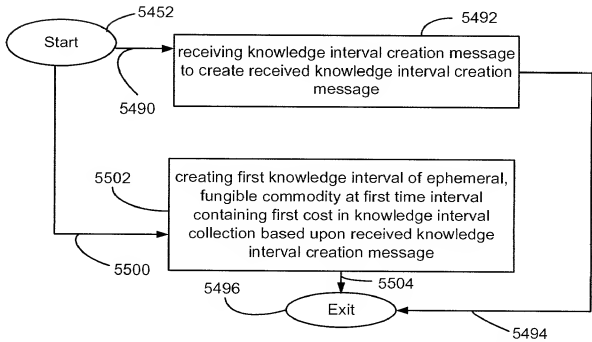
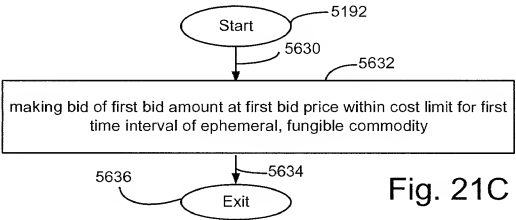
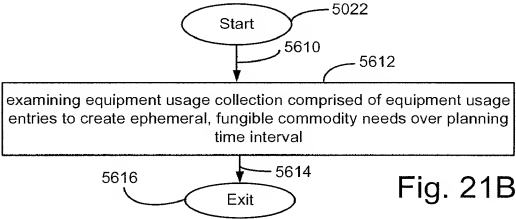
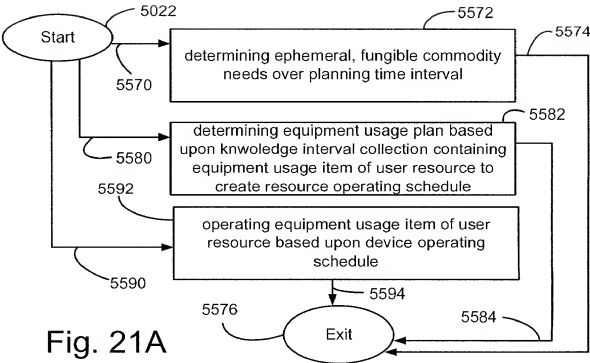


Fig. 20B



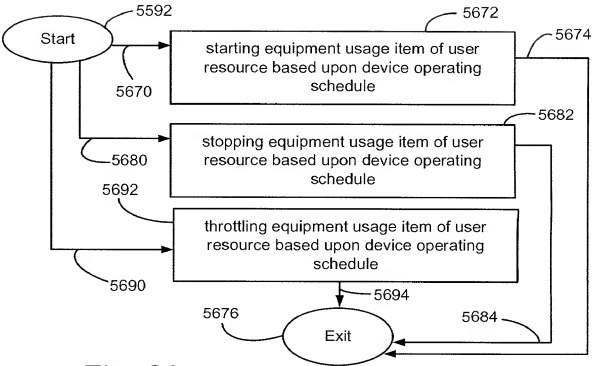
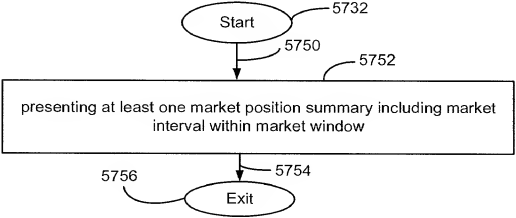
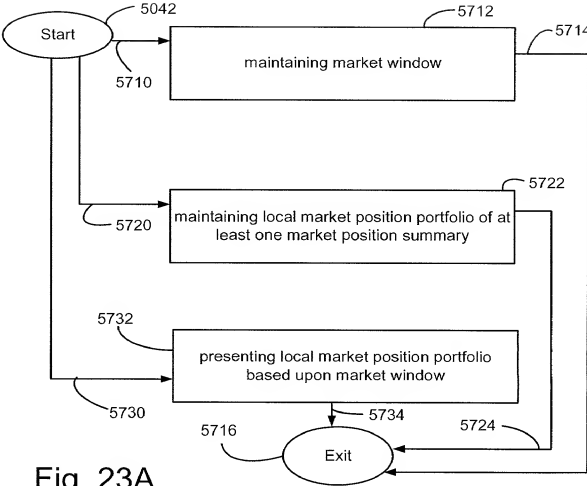


Fig. 22

000000-000000



109180-46923660

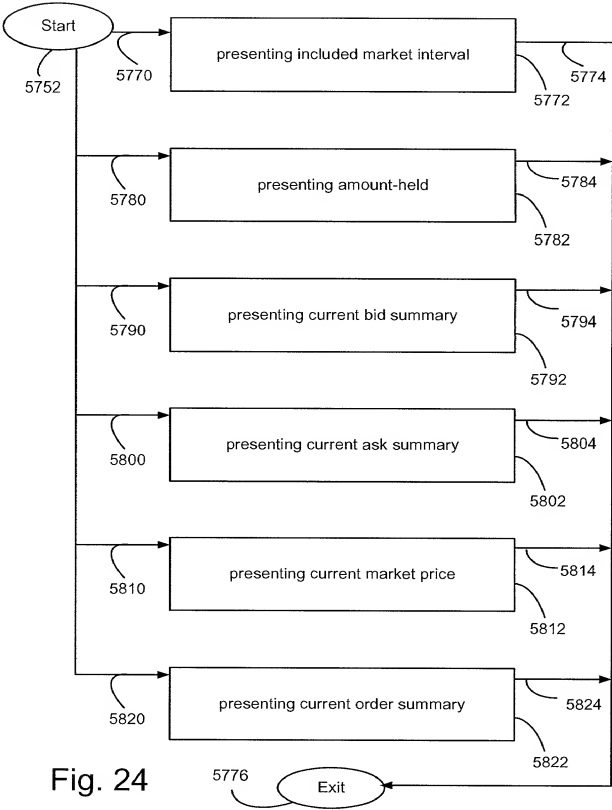


Fig. 24

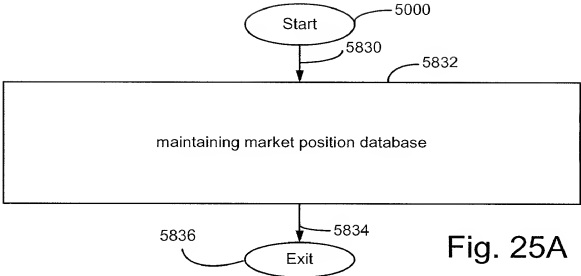


Fig. 25A

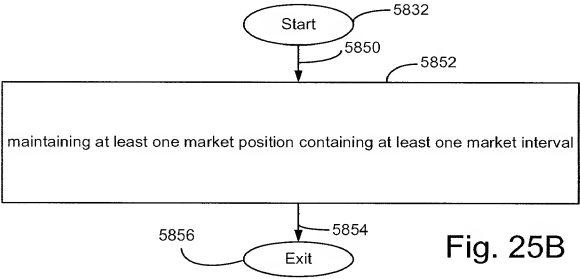


Fig. 25B

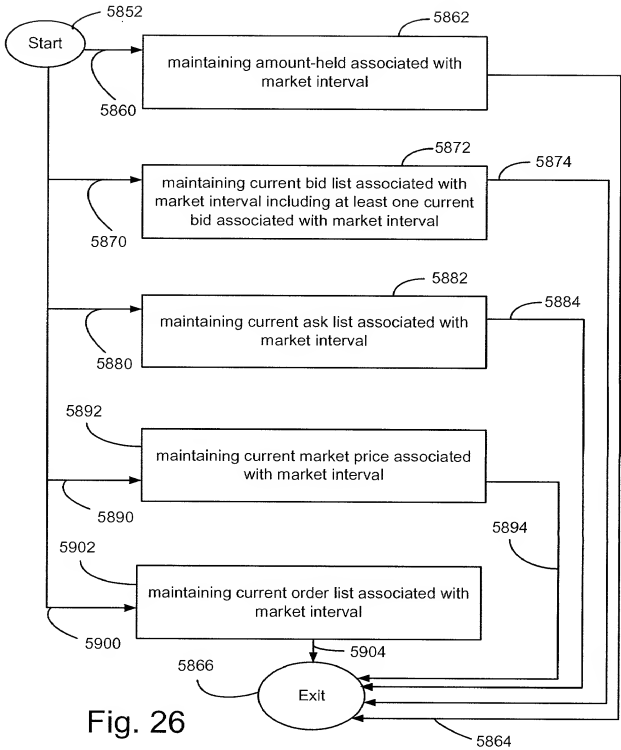
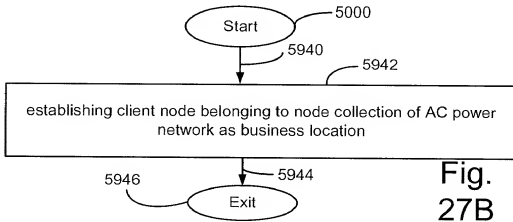
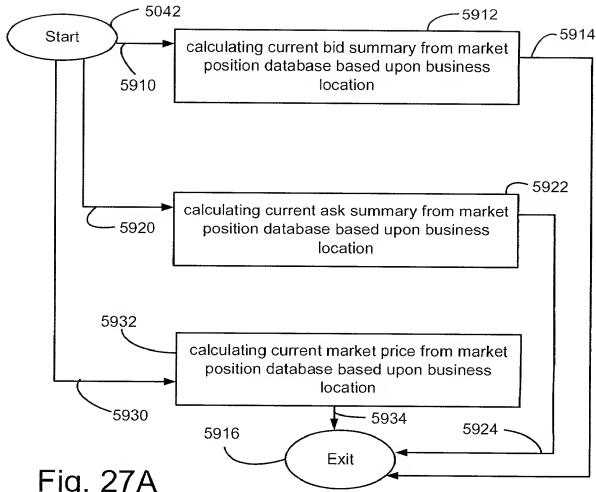


Fig. 26



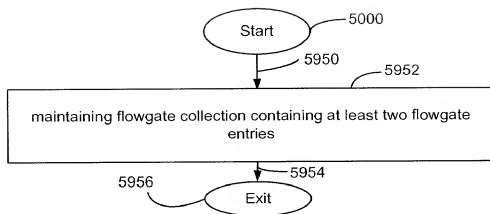


Fig. 28A

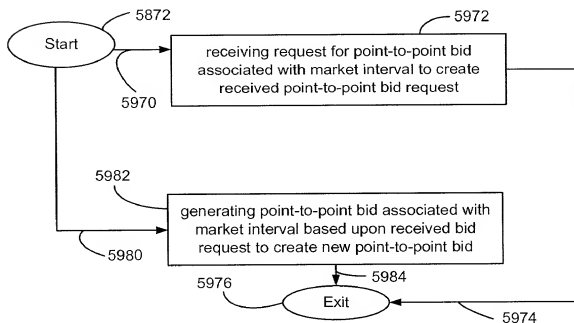


Fig. 28B

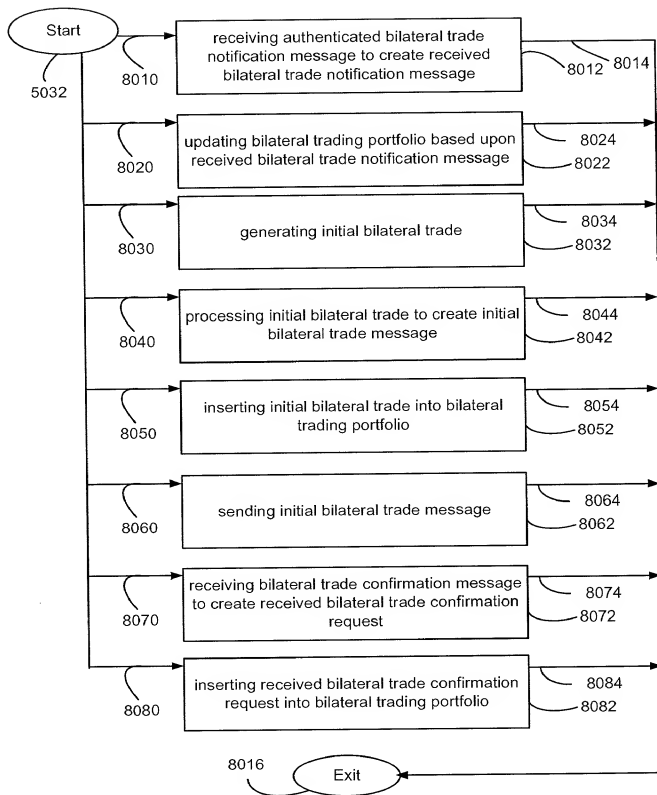
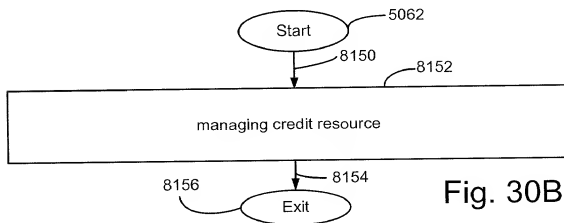
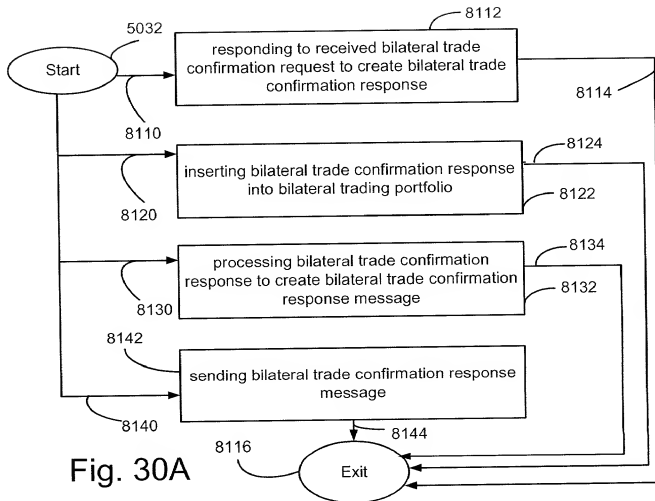
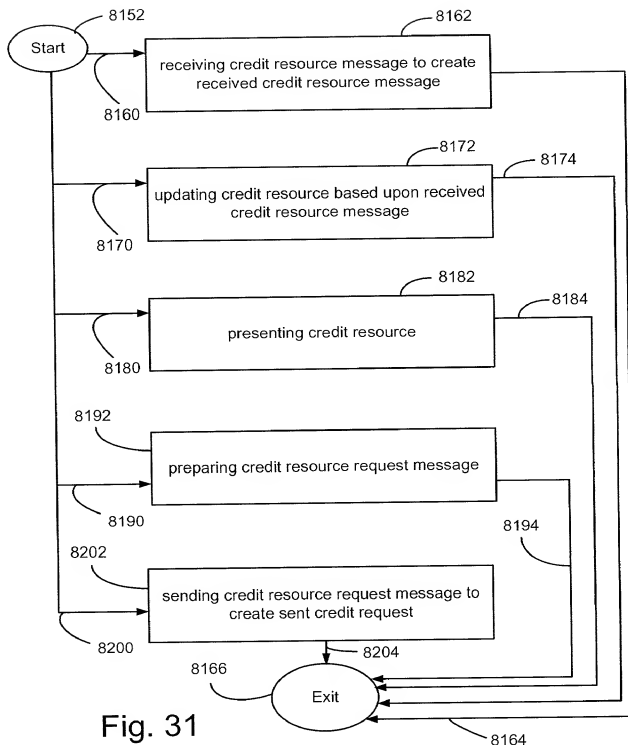
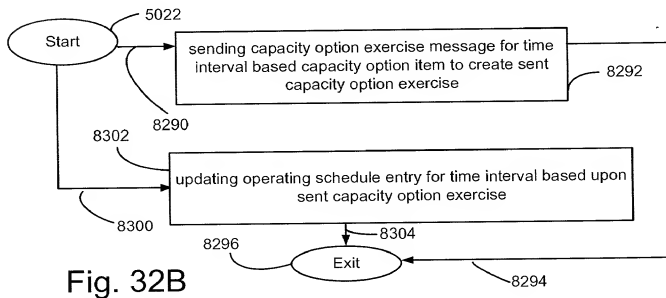
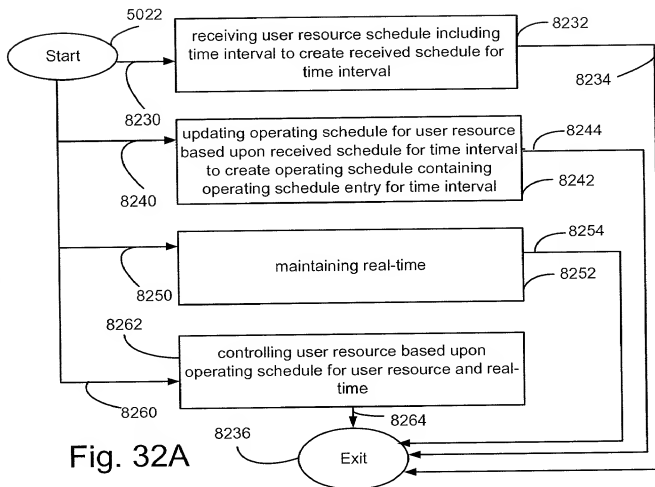


Fig. 29







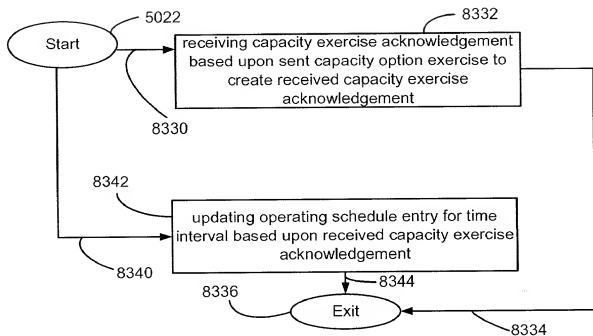


Fig. 33A

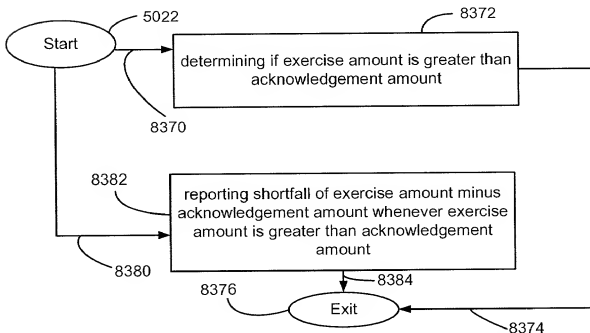


Fig. 33B

